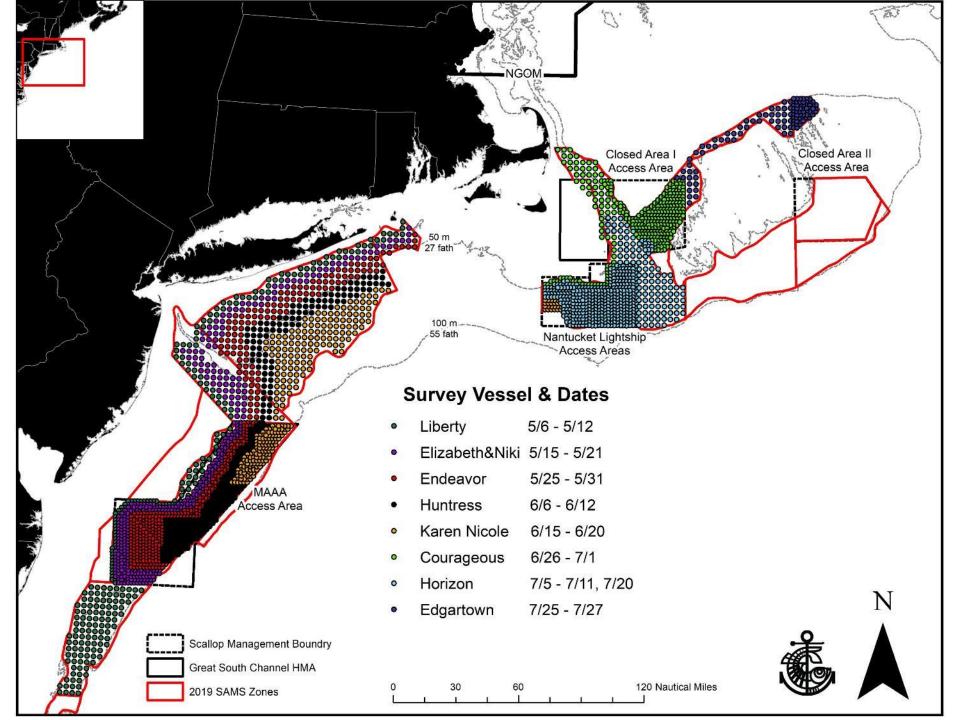


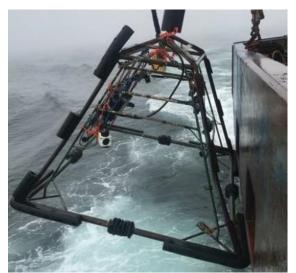
Scallop PDT Meeting August 27-28, 2019

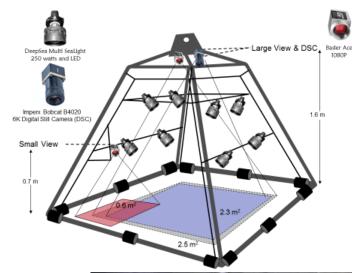


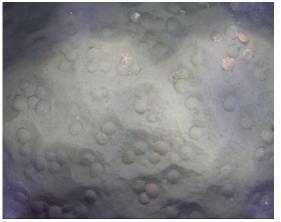
Department of Fisheries Oceanography
School for Marine Science and Technology
University of Massachusetts Dartmouth



Drop Camera Pyramid – Imperx Digital Still









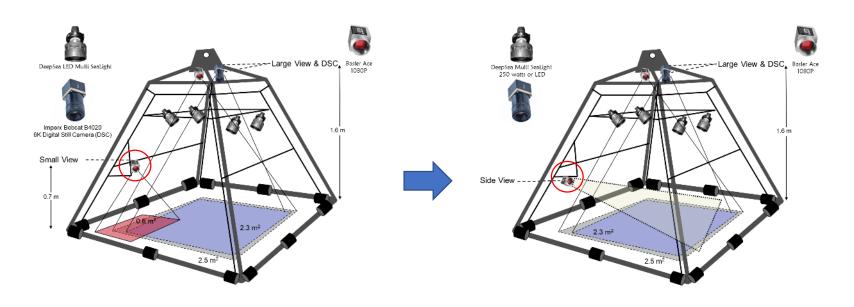


Large View (2.5 m²)

Small View (0.6 m²)

Digital Still Camera (2.3 m²)

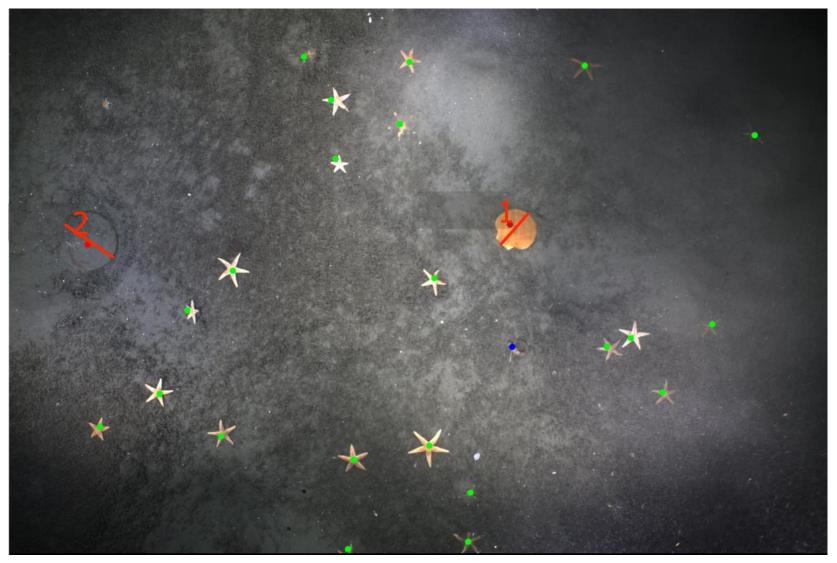
Return of the Side Camera





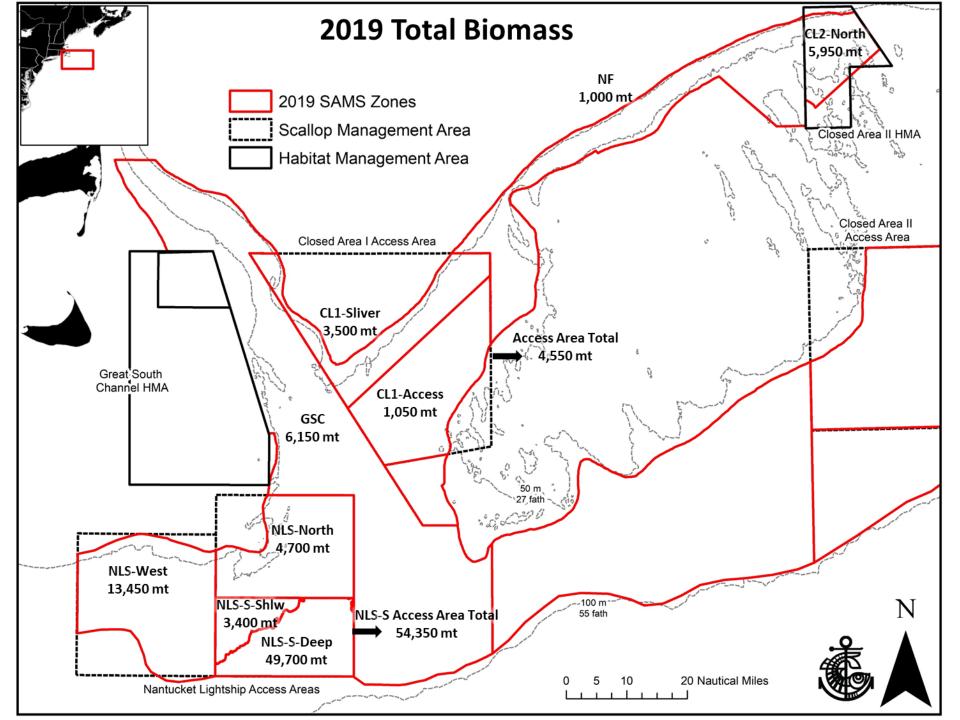
Portion of NLS-West; All of northern flank

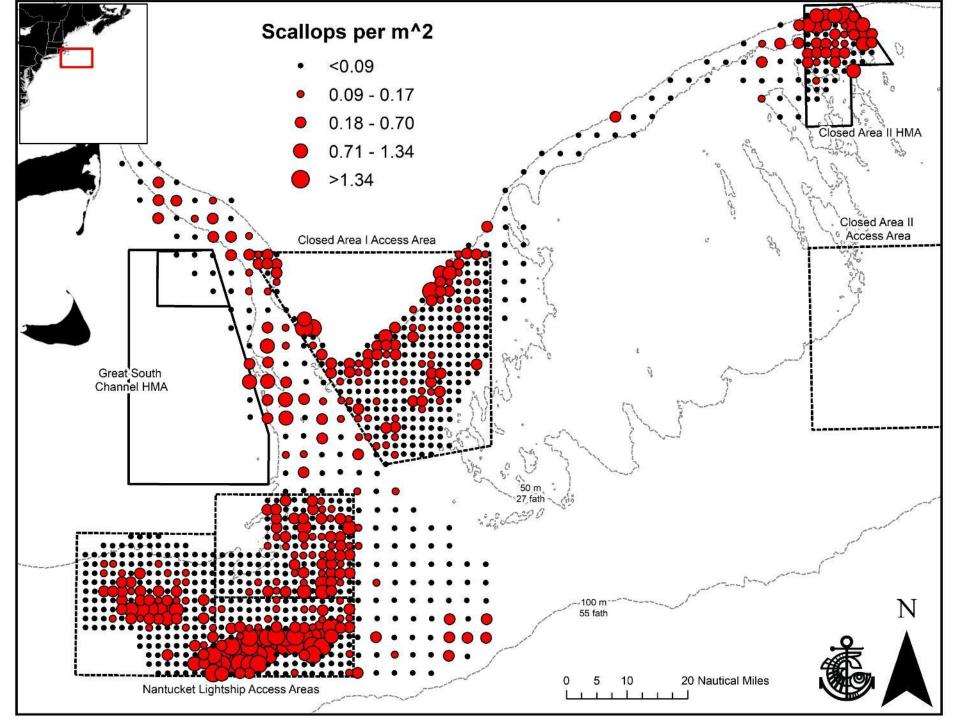
Image Processing

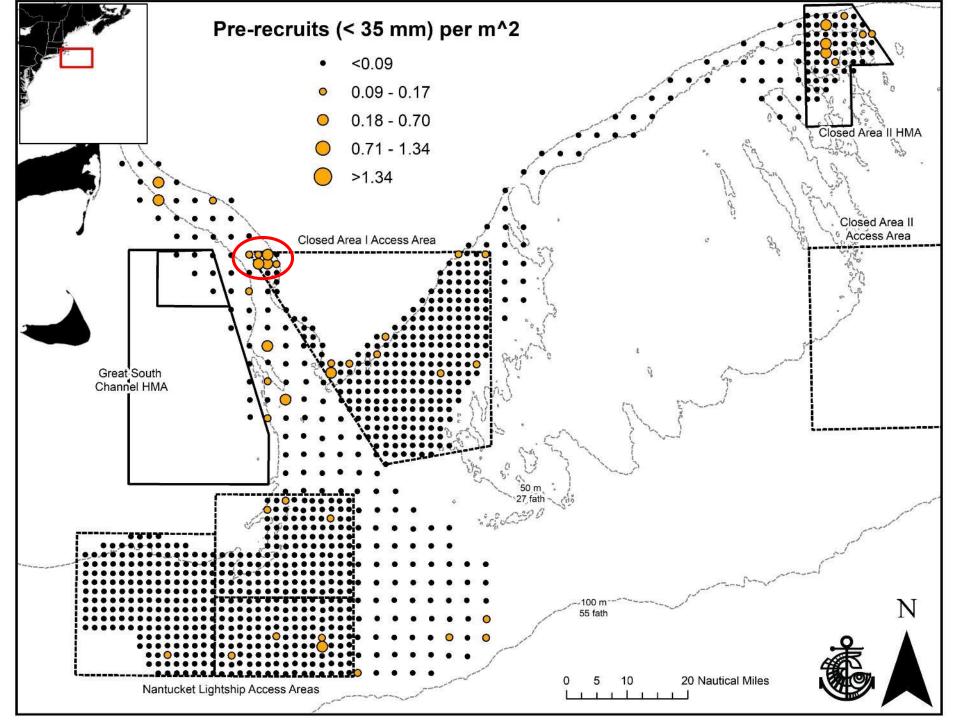


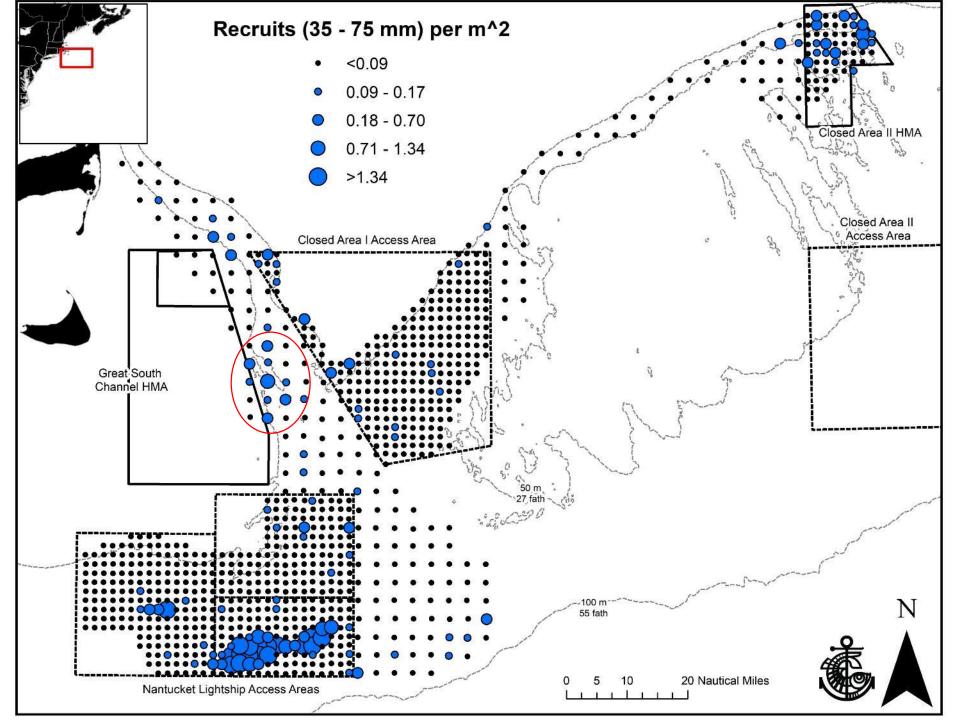
Every image annotated, looked at by three people Video from large and side camera view used as an aid

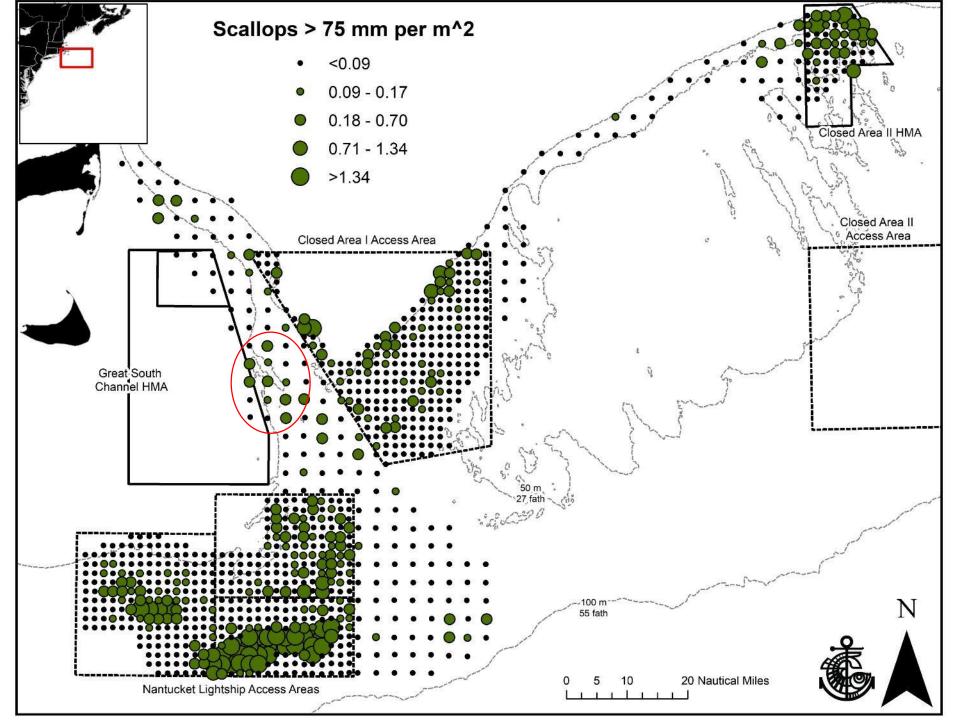
Detailed methods: Bethoney and Stokesbury 2018, doi:10.3791/57493

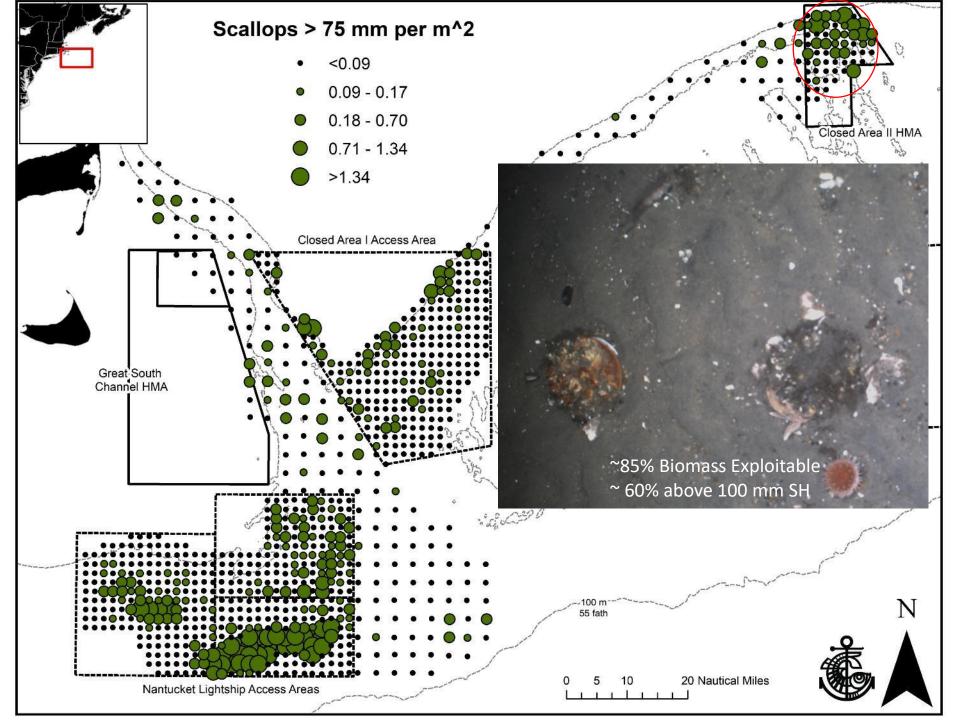


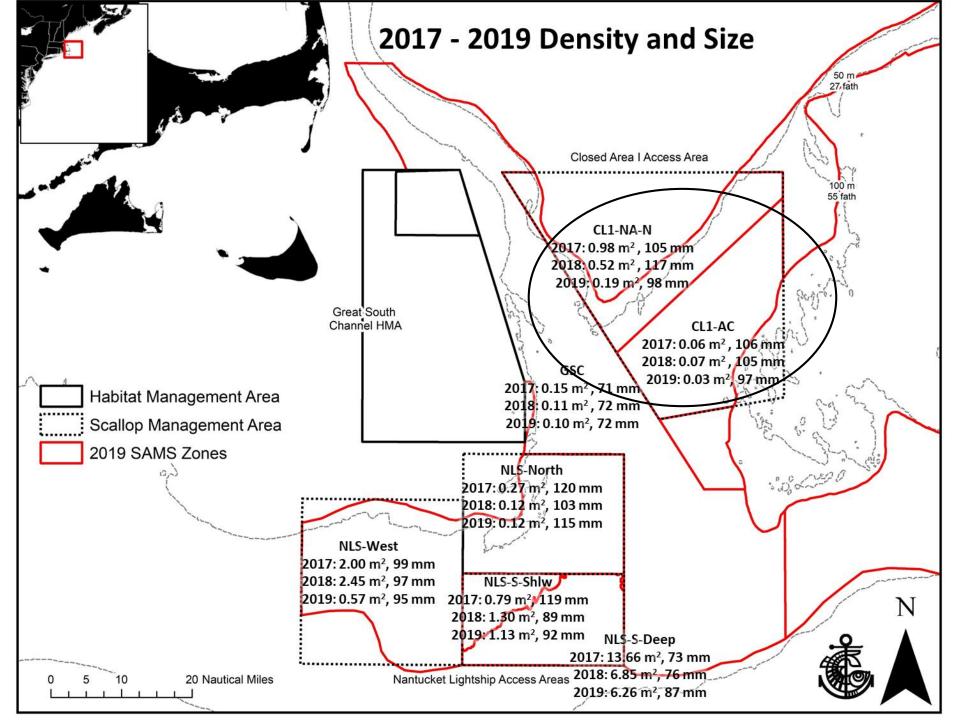


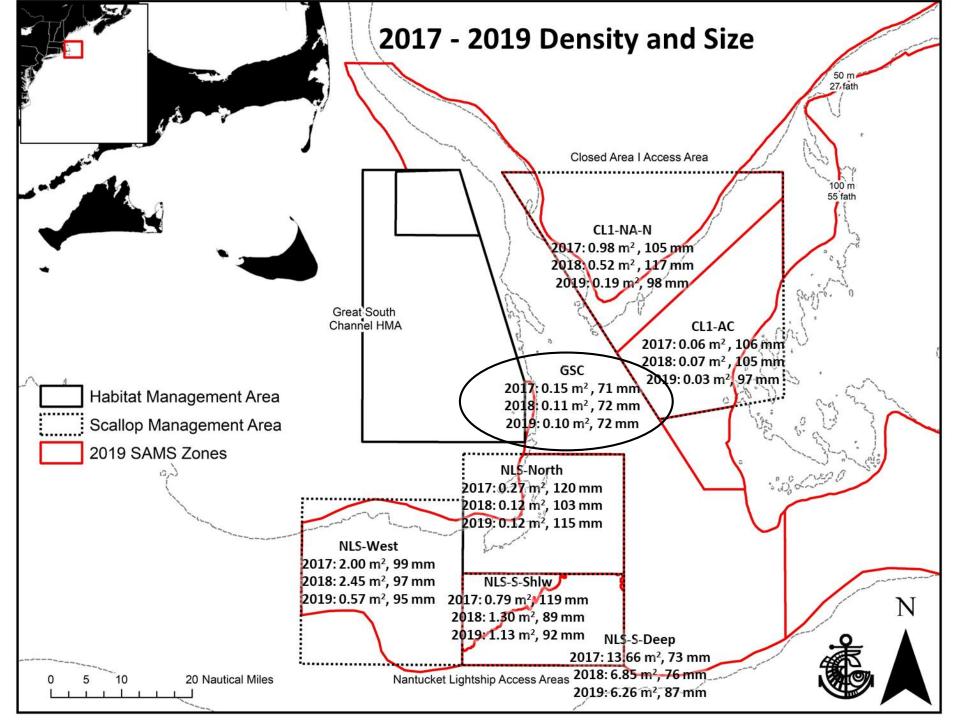


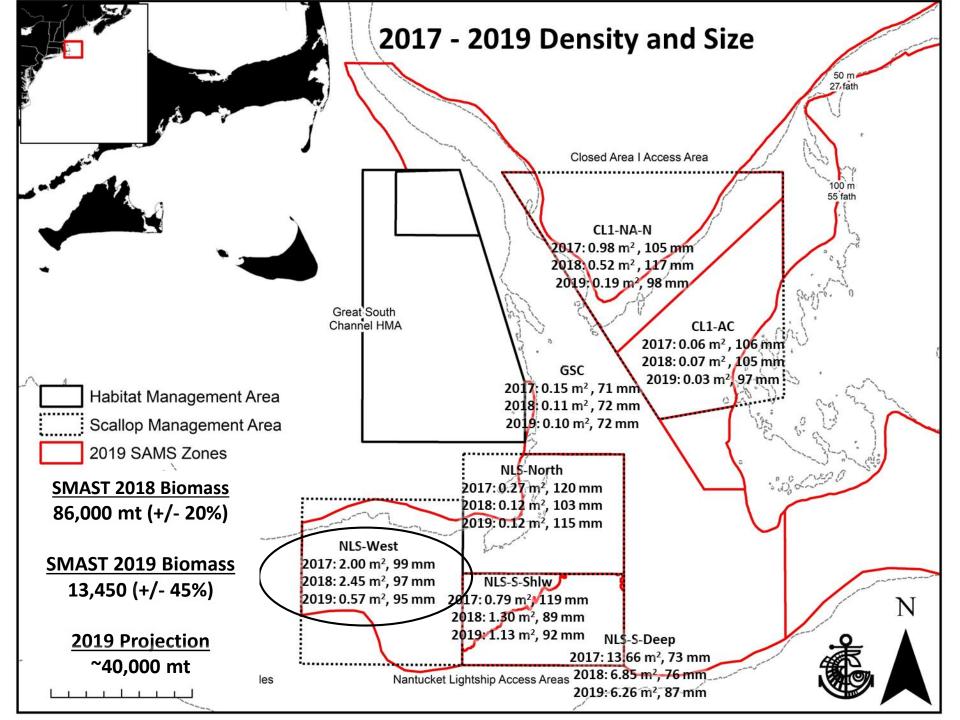










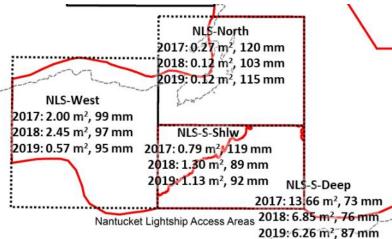


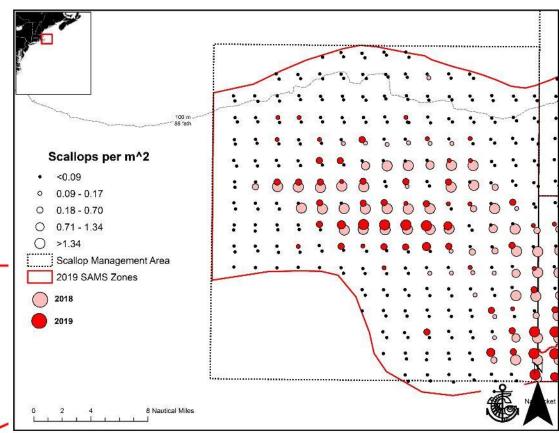
NLS-West Decline

SMAST 2018 Biomass 86,000 mt (+/- 20%)

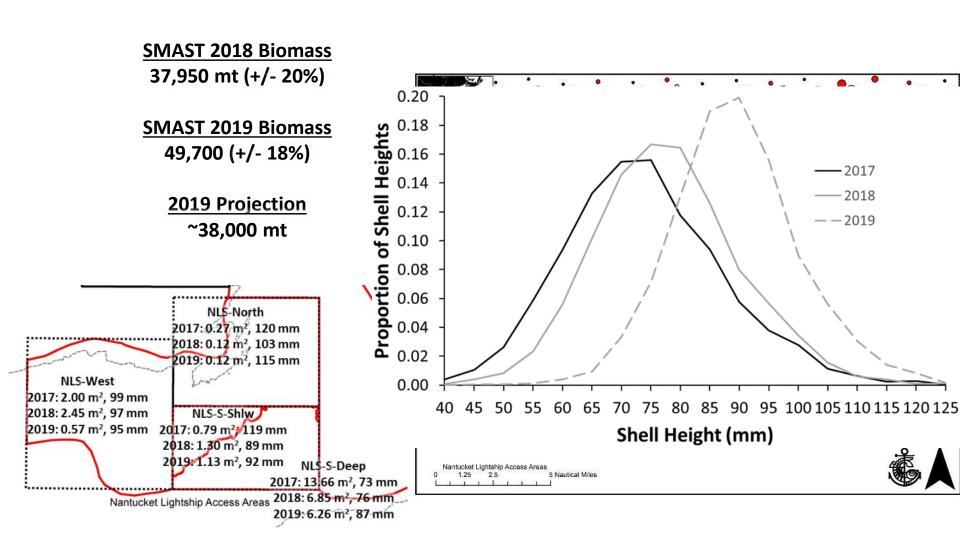
SMAST 2019 Biomass 13,450 (+/- 45%)

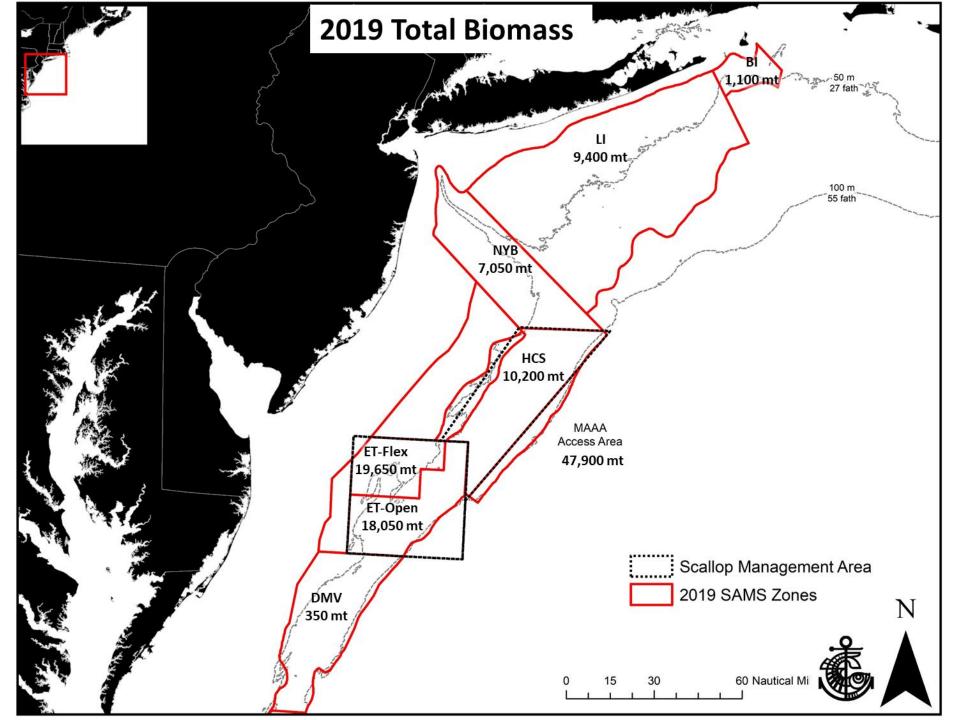
2019 Projection ~40,000 mt

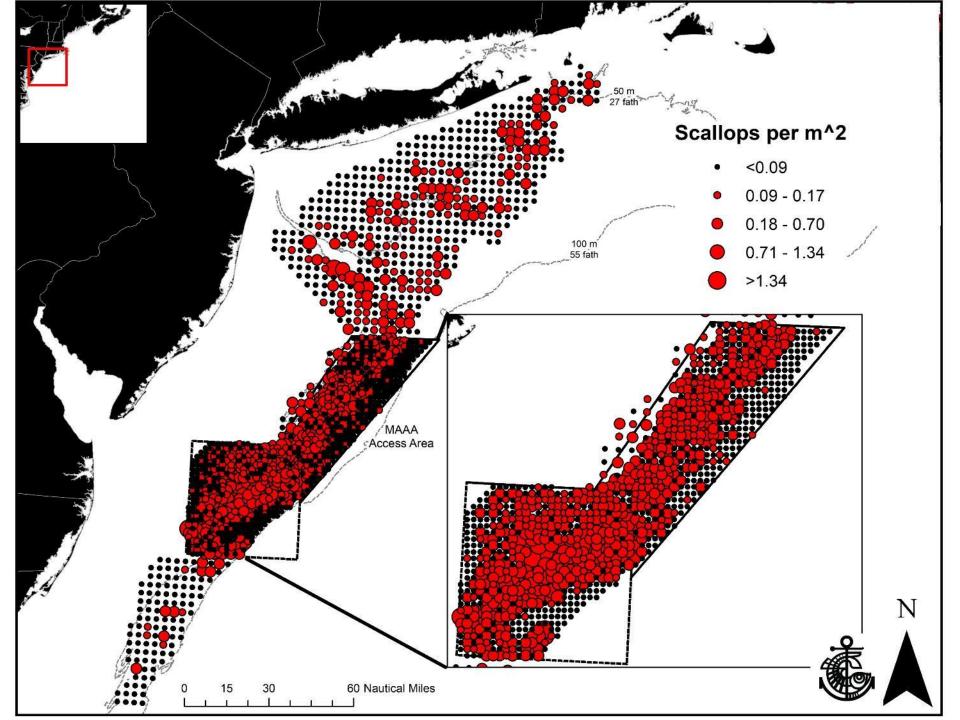


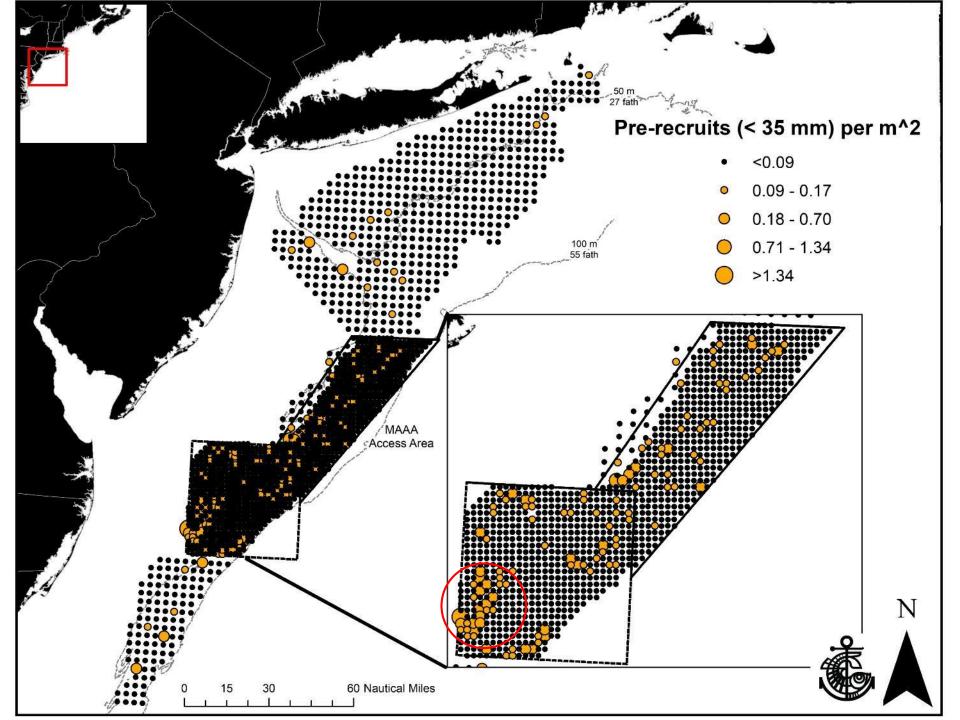


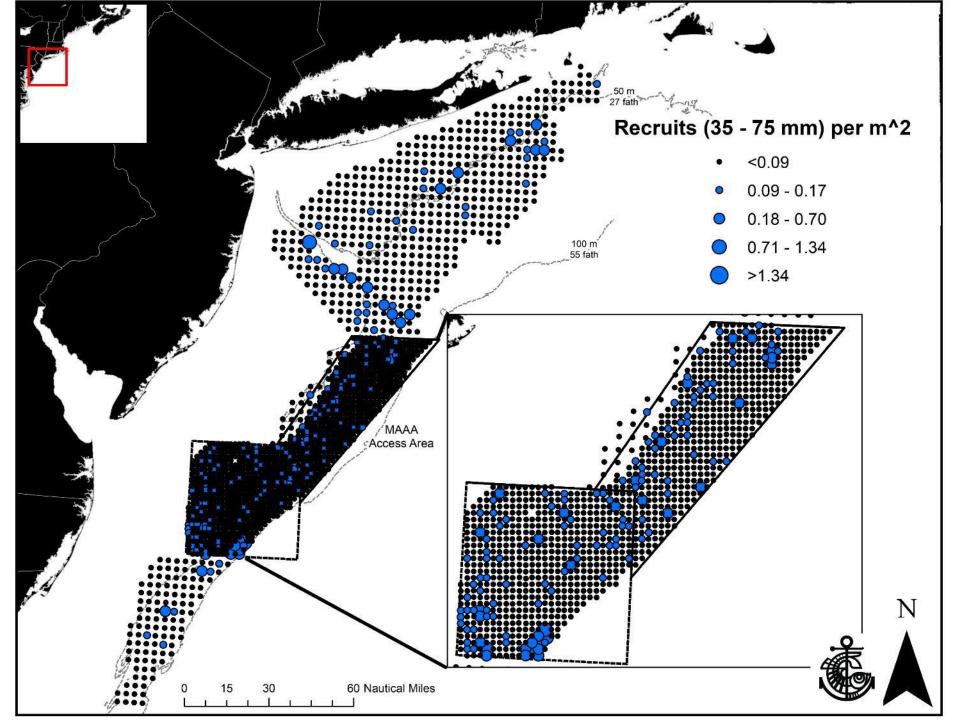
NLS-South-Deep Increase

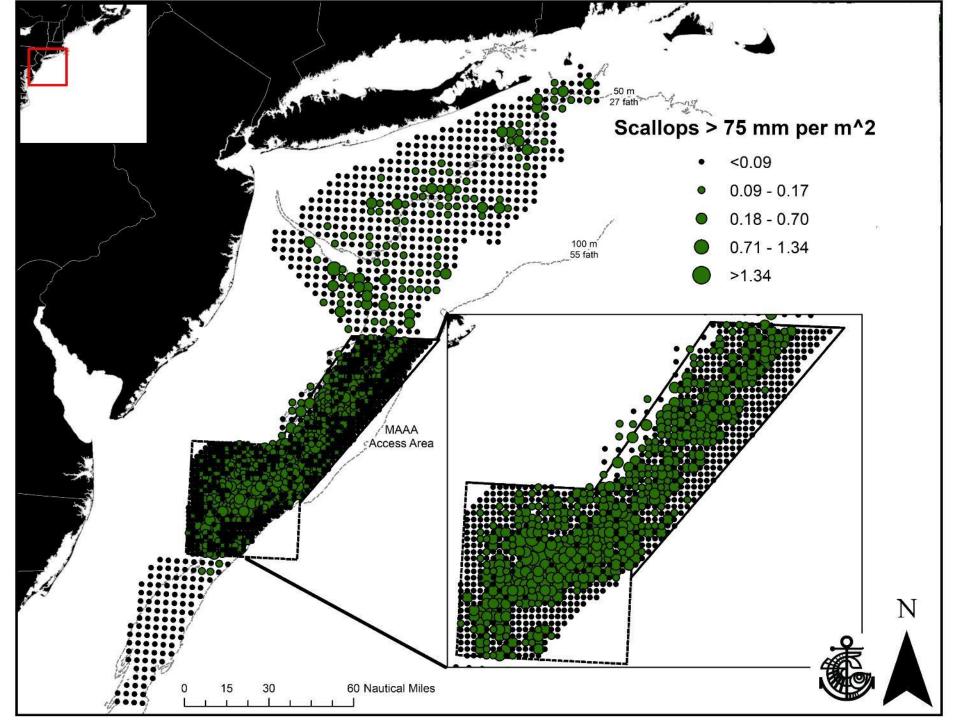




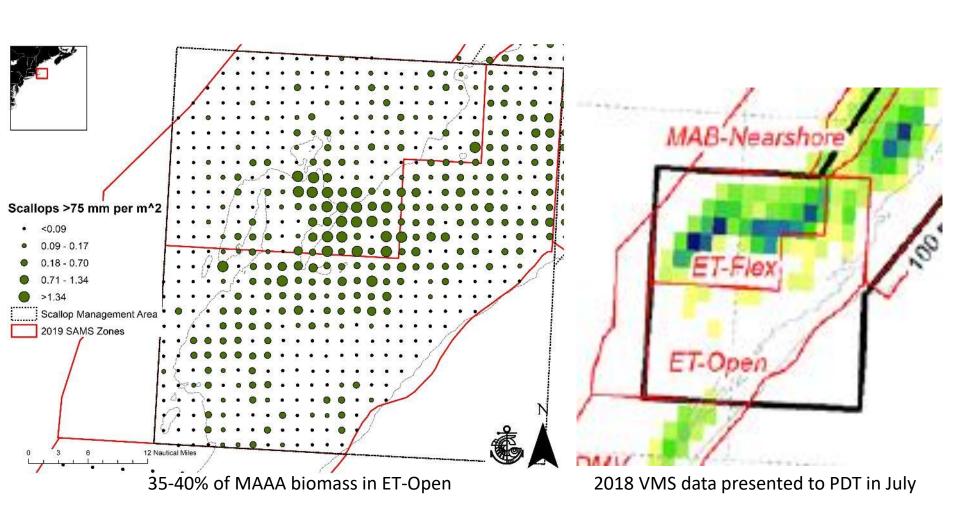




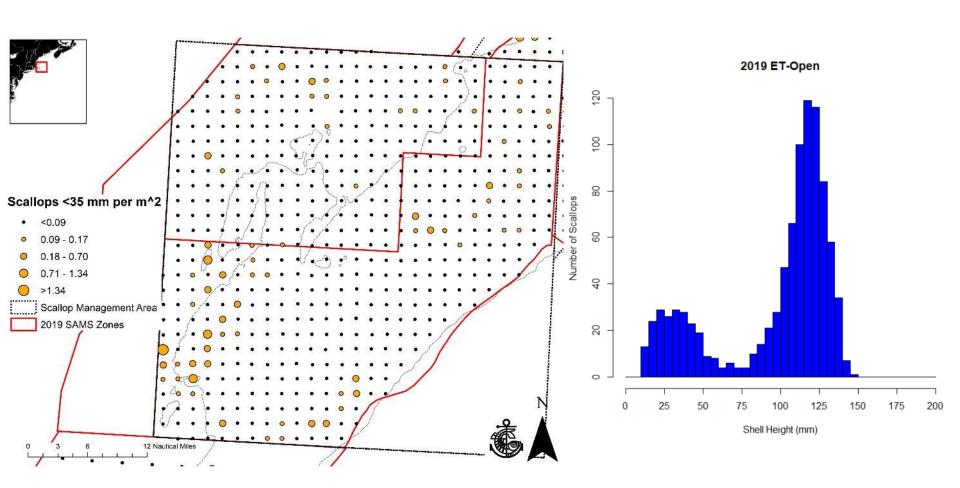




ET-Open and the MAAA

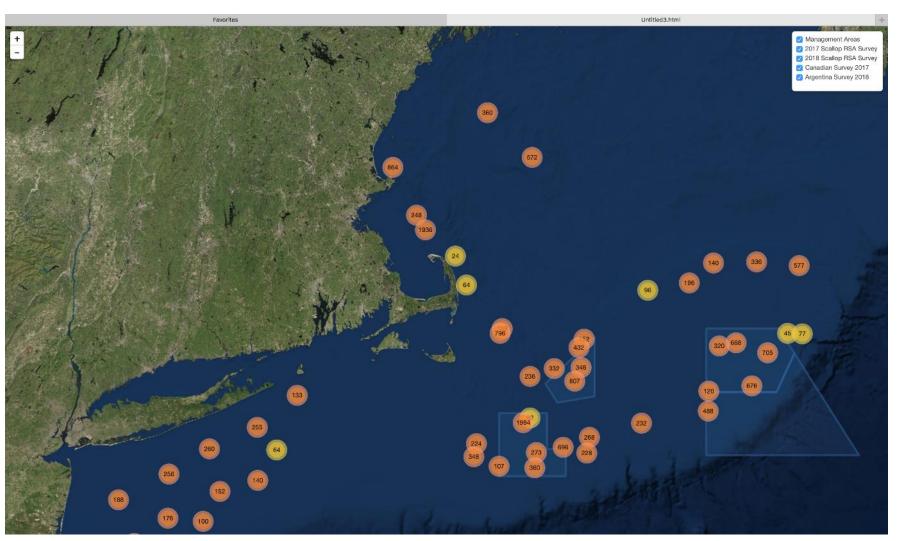


ET-Open and the MAAA



25% of scallops in ET-Open <75 mm Most in south

Image Sharing



http://bit.ly/scallopsurvey

Questions/Discussion

Thank you to all involved in SMAST Drop Camera Survey:

Students, Staff, Captains, Crew, Vessel Owners, Fuel and Food Donators